

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method enabling advanced audio manipulation comprising:
obtaining a set of waveform data; [[,]]
storing the set of waveform data as a component of a first file that has a particular file format;
obtaining a set of Musical Instrument Digital Interface data; [[,]]
storing the set of Musical Instrument Digital Interface data as a component of a second file that has said particular file format;
obtaining a set of synthesis parameter data; [[,]]
storing the set of synthesis parameter data as a component of a third file that has said particular file format; [[and]]
obtaining a set of playback parameter data; and [[,]]
storing the set of playback parameter data as a component of a fourth file that has said particular file format;
wherein said particular file format enables playback parameter data to remain separate from waveform data during exchange of audio data.
2. (previously presented) The method of claim 1 wherein obtaining said set of waveform data includes at least one of:
obtaining one track of sample sound data;
obtaining a track of data in WAVE format;
obtaining a track of data in Audio Interchange File format; or
synthesizing said set of waveform data.
- 3-5. (canceled)
6. (original) The method of claim 1 wherein said obtaining said set of Musical Instrument Digital Interface data further comprises synthesizing said set of Musical Instrument Digital Interface data.

7. (currently amended) The method of claim 1 wherein said obtaining said set of synthesis parameter data further comprises obtaining at least one user-defined synthesis parameter setting forth [[the]] a synthesis treatment of said set of Musical Instrument Digital Interface data.
8. (original) The method of claim 7 wherein said obtaining said at least one user-defined synthesis parameter further comprises obtaining at least one synthesis modification parameter to modify said at least one user-defined synthesis parameter.
9. (previously presented) The method of claim 1 wherein said obtaining said set of playback parameter data further comprises obtaining at least one user-defined playback parameter setting forth effects during rendering said set of Musical Instrument Digital Interface data.
10. (original) The method of claim 9 wherein said obtaining said at least one user-defined playback parameter further comprises obtaining at least one playback modification parameter to modify said at least one user-defined playback parameter.
11. (previously presented) The method of claim 1 further comprising collecting any available data of said set of waveform data, said set of Musical Instrument Digital Interface data, said set of synthesis parameter data and said set of playback parameter data.
12. (currently amended) The method of claim 1 further comprising producing at least one data chunk in accordance with [[the]] a format of Musical Instrument Digital Interface protocols for any of said set of waveform data, said set of Musical Instrument Digital Interface data, said set of synthesis parameter data and said set of playback parameter data.

13. (currently amended) A computer-readable storage medium storing a computer program configured to execute on a computing device having a processor and memory, ~~said computer program providing a file structure that enables advanced audio manipulation~~, said computer program having computer program code configured to:

obtain a set of waveform data; [[,]]

storing the set of waveform data as a component of a first file that has a particular file format;

obtain a set of Musical Instrument Digital Interface data; [[,]]

storing the set of Musical Instrument Digital Interface data as a component of a second file that has said particular file format;

obtain a set of synthesis parameter data; [[,]]

storing the set of synthesis parameter data as a component of a third file that has said particular file format; [[and]]

obtain a set of playback parameter data; and [[,]]

storing the set of playback parameter data as a component of a fourth file that has said particular file format;

wherein said particular file format enables playback parameter data to remain separate from waveform data during exchange of audio data.

14. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code configured to obtain said set of waveform data further comprises computer program code configured to synthesize said set of waveform data.

15. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code configured to obtain said set of Musical Instrument Digital Interface data further comprises computer program code configured to synthesize said set of Musical Instrument Digital Interface data.

16. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code configured to obtain said set of synthesis data further comprises computer program code configured to obtain at least one user-defined synthesis parameter setting forth ~~[[the]]~~ a synthesis treatment of said set of Musical Instrument Digital Interface data.
17. (currently amended) The computer-readable storage medium of claim 16 wherein said computer program code configured to obtain said at least one user-defined synthesis parameter further comprises computer program code configured to obtain at least one synthesis modification parameter to modify said at least one user-defined synthesis parameter.
18. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code configured to obtain said set of playback data further comprises obtaining at least one user-defined playback parameter setting forth effects during rendering said set of Musical Instrument Digital Interface data.
19. (currently amended) The computer-readable storage medium of claim 18 ~~wherein~~ wherein said computer program code configured to obtain said at least one user-defined playback parameter further comprises computer program code configured to obtain at least one playback modification parameter to modify said at least one user-defined playback parameter.
20. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code ~~configured to combine~~ further ~~comprise~~ comprises computer program code configured to collect any ~~of the~~ available data of said set of waveform data, said set of Musical Instrument Digital Interface data, said set of synthesis parameter data and said set of playback parameter data.

21. (currently amended) The computer-readable storage medium of claim 13 wherein said computer program code ~~configured to combine~~ further comprises computer program code configured to produce at least one data chunk in accordance with [[the]] a format of Musical Instrument Digital Interface protocols for any of said set of waveform data, said set of Musical Instrument Digital Interface data, said set of synthesis parameter data and said set of playback parameter data.
22. (currently amended) A method for manipulating audio data comprising:
obtaining an audio manipulation request associated with an audio waveform;
determining that an audio file comprising sample data associated with said audio waveform also comprises data that sets forth a specific synthesis treatment to be used for processing sound for a given instrument, wherein said audio file specifies the given instrument for which said specific synthesis treatment is to be used; and
in response to said audio manipulation request, performing the requested audio manipulation and processing sound for said given instrument on a playback device using the specific synthesis treatment that is specified by said data, thereby overriding any synthesis treatment that the playback device would otherwise use for the given instrument.
23. (canceled)
24. (previously presented) The method of claim 22 wherein said data that sets forth a specific synthesis treatment to be used for processing a given sound further comprises a set of playback parameters.
25. (currently amended) An apparatus for manipulating audio data comprising:
means for obtaining an audio manipulation request associated with an audio waveform;
means for determining that an audio file comprising sample data associated with said audio waveform also comprises data that sets forth a specific synthesis treatment to be used for processing sound for a given instrument, wherein said audio file specifies the given instrument for which said specific synthesis treatment is to be used; and

means for responding to said audio manipulation request by performing the requested audio manipulation and processing sound for said given instrument on a playback device using the specific synthesis treatment that is specified by said data, thereby overriding any synthesis treatment that the playback device would otherwise use for the given instrument.

26. (currently amended) A file stored on a computer-readable storage medium, said file containing, both
(a) sample data associated with an audio waveform; and
(b) data that sets forth a specific synthesis treatment to be used for processing a given sound.

27. (canceled)

28. (currently amended) The ~~data structure~~ file stored on a computer-readable storage medium of claim 26 further comprising a set of audio playback parameter[[s]] data.

29. (currently amended) The method of claim 1 further comprising:
storing the [[a]] set of waveform data, ~~;~~ and a the set of Musical Instrument Digital Interface data, ~~;~~ and a the set of synthesis parameter data, [[;]] and [[a]] the set of playback parameter data in a single file that has said particular format.

30. (currently amended) The method of claim 1 further comprising:
storing the [[a]] set of waveform data, ~~;~~ and a the set of Musical Instrument Digital Interface data, [[;]] and [[a]] the set of synthesis parameter data in a single file that has said particular format.

31. (currently amended) The method of claim 1 further comprising:

storing [[a]] the set of waveform data₁ ~~;-and-a~~ the set of Musical Instrument Digital Interface data₁[[;]] and [[a]] the set of playback parameter data in a single file that has said particular format.

32. (currently amended) The method of claim 1 further comprising:
storing [[a]] the set of waveform data[[;]] and [[a]] the set of Musical Instrument Digital Interface data in a single file that has said particular format.

33. (currently amended) The method of claim 1 further comprising:
storing [[a]] the set of waveform data[[;]] and [[a]] the set of playback parameter data in a single file that has said particular format.

34. (currently amended) The method of claim 1 further comprising:
storing [[a]] the set of Musical Instrument Digital Interface data₁ ~~;-and-a~~ the set of synthesis parameter data₁[[;]] and [[a]] the set of playback parameter data in a single file that has said particular format.

35. (currently amended) The method of claim 1 further comprising:
storing [[a]] the set of Musical Instrument Digital Interface data[[;]] and [[a]] the set of synthesis parameter data in a single file that has said particular format.

36. (currently amended) The method of claim 1 further comprising:
storing [[a]] the set of Musical Instrument Digital Interface data[[;]] and [[a]] the set of playback parameter data in a single file that has said particular format.